

ESCALANTE RIVER BASIN

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09337500 ESCALANTE RIVER NEAR ESCALANTE, UT

LOCATION.--Lat $37^{\circ}46'41''$, long $111^{\circ}34'26''$, in NE $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 9, T. 35 S., R. 3 E., Garfield County, Hydrologic Unit 14070005, Bureau of Land Management, on left bank 150 ft downstream from Pine Creek and 1.5 mi northeast of Escalante.

DRAINAGE AREA.--320 mi².

PERIOD OF RECORD.--August 1909 to April 1913, October 1942 to September 1955, December 1971 to current year. Published as Escalante Creek near Escalante 1909-13.

REVISED RECORDS.--WSP 1149: 1943(M), 1944, 1945(M). WDR UT-73-1: 1972.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 5,670 ft above NGVD of 1929, from topographic map. Prior to April 30, 1913, staff at approximately same site at different datum.

REMARKS.--Records good except for daily discharges less than 2.0 ft³/s and estimated daily discharges, which are poor. Regulation of low flows by diversion into Wide Hollow Reservoir (an off-stream storage site about 4 mi upstream; capacity about 2,300 acre-feet) and by diversion on Pine Creek for irrigation of about 2,300 acres.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,550 ft³/s, Aug 24, 1998, gage height, 11.05 ft, from rating curve extended above 150 ft³/s on basis of slope-area measurements at gage heights, 5.31 ft, 6.25 ft, 7.59 ft, and 11.05 ft; minimum daily, 0.07 ft³/s, Jul 11, 1990.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 674 ft³/s, Mar 13, gage height, 4.58 ft; minimum daily discharge, 0.10 ft³/s, on many days in Jul and Aug.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.16	0.66	6.5	0.91	1.8	1.5	2.5	1.1	0.38	0.21	e0.10	0.14
2	0.24	0.66	7.0	1.3	1.8	1.4	3.7	1.1	0.38	0.17	e0.10	0.14
3	2.7	0.76	4.0	1.7	1.8	1.4	6.0	1.1	0.35	0.16	e0.10	0.13
4	0.41	0.82	2.8	1.8	1.8	2.3	4.5	3.1	0.32	0.14	e0.10	0.14
5	0.27	0.74	2.0	1.8	1.3	4.0	3.8	5.3	0.32	e0.10	e0.10	0.12
6	0.25	0.74	1.9	1.8	0.96	1.3	3.8	9.5	0.31	e0.10	11	0.13
7	0.23	0.74	2.0	1.2	2.6	5.2	3.4	4.3	0.31	e0.10	18	0.12
8	0.22	0.78	2.0	e0.20	1.6	12	2.6	7.1	0.25	e0.10	0.25	0.11
9	0.22	0.89	2.6	e0.20	1.6	19	2.6	4.8	0.25	e0.10	0.15	0.12
10	0.22	1.8	1.7	0.46	e1.4	24	2.3	2.0	0.27	e0.10	0.14	0.18
11	0.22	1.9	1.7	0.81	e1.6	22	2.3	1.8	0.27	e0.10	0.14	0.14
12	0.22	1.9	2.2	1.1	e1.3	22	2.3	1.5	0.28	e0.10	0.14	0.14
13	0.27	2.9	1.9	1.6	e1.4	24	2.2	0.66	0.26	e0.10	0.14	0.12
14	0.27	2.2	2.0	1.5	e1.5	23	2.2	0.66	0.23	e0.20	0.14	0.12
15	0.27	2.0	3.2	1.5	e1.6	18	2.2	0.66	0.26	e0.20	0.14	0.11
16	0.27	2.1	6.8	1.5	e1.9	14	1.9	0.66	0.40	2.3	0.16	0.12
17	0.30	2.1	6.4	1.5	1.9	13	1.6	0.66	0.42	1.6	0.14	0.12
18	0.31	1.8	4.3	1.5	1.9	8.9	1.6	0.90	0.36	22	0.13	0.12
19	0.31	1.8	1.2	1.5	1.9	3.1	1.5	1.5	0.29	0.14	7.4	34
20	0.31	1.9	1.2	1.6	1.8	3.0	1.5	1.9	0.29	e0.10	12	1.4
21	0.31	2.0	1.9	2.6	1.6	2.9	1.4	1.2	0.30	e0.10	4.0	0.33
22	0.31	2.1	1.9	1.4	1.7	2.9	1.4	1.8	0.31	e0.10	5.0	0.22
23	0.31	1.9	2.5	0.57	2.3	2.9	1.2	1.3	0.34	e0.10	0.45	0.19
24	0.32	0.93	1.9	0.77	2.2	11	1.0	1.0	0.25	e0.40	0.18	0.19
25	0.45	0.78	1.9	1.3	1.8	18	1.0	0.60	0.29	e20	0.16	0.19
26	0.47	1.3	4.3	1.4	1.7	21	1.0	0.41	0.30	11	0.15	0.19
27	0.50	1.1	2.5	2.5	1.8	7.8	1.0	0.35	0.34	4.4	0.14	0.18
28	0.59	0.84	2.5	1.3	1.5	3.3	1.2	0.34	3.0	0.50	0.14	0.17
29	0.59	0.64	2.5	0.93	1.6	2.8	1.2	0.38	22	0.10	0.14	0.23
30	0.61	4.4	1.4	1.7	---	2.7	1.2	0.38	0.55	e0.10	0.14	0.23
31	0.62	---	0.77	1.8	---	2.6	---	0.38	---	e0.10	0.14	---
TOTAL	12.75	45.18	87.47	41.75	49.66	301.0	66.1	58.44	33.88	65.02	61.21	39.84
MEAN	0.41	1.51	2.82	1.35	1.71	9.71	2.20	1.89	1.13	2.10	1.97	1.33
MAX	2.7	4.4	7.0	2.6	2.6	24	6.0	9.5	22	22	18	34
MIN	0.16	0.64	0.77	0.20	0.96	1.3	1.0	0.34	0.23	0.10	0.10	0.11
AC-FT	25	90	173	83	99	597	131	116	67	129	121	79

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2004, BY WATER YEAR (WY)

MEAN	7.41	6.72	7.07	8.25	10.1	12.3	13.3	22.1	17.2	5.95	8.15	6.86
MAX	29.9	23.8	18.1	26.4	23.8	39.7	54.8	124	125	30.5	30.8	39.4
(WY)	(1973)	(1988)	(1943)	(1950)	(1943)	(1989)	(1993)	(1973)	(1983)	(1944)	(1983)	(1998)
MIN	0.41	0.80	0.77	0.96	1.21	0.67	1.23	0.88	0.47	0.28	0.31	0.73
(WY)	(2004)	(1991)	(1991)	(1991)	(1993)	(1991)	(1990)	(1954)	(2003)	(2002)	(1955)	

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1943 - 2004
ANNUAL TOTAL	665.48	862.30	
ANNUAL MEAN	1.82	2.36	
HIGHEST ANNUAL MEAN			10.6
LOWEST ANNUAL MEAN			30.7
HIGHEST DAILY MEAN	14	Sep 6	1.49
LOWEST DAILY MEAN	0.15	Sep 24	Sep 11, 1998
ANNUAL SEVEN-DAY MINIMUM	0.15	Sep 24	Jul 11, 1990
ANNUAL RUNOFF (AC-FT)	1,320	1,710	Jul 5, 2004
10 PERCENT EXCEEDS	4.0	4.4	7,670
50 PERCENT EXCEEDS	1.1	1.2	23
90 PERCENT EXCEEDS	0.25	0.14	0.07
			4.7
			0.10
			0.95

e Estimated

